## POLYMER ELECTROLYTE MEMBRANE AND METHOD OF PRODUCTION THEREOF

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Cited documents:

WO9740924 WO9725369

WO9613872

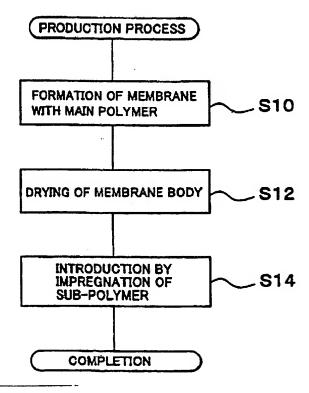
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## Abstract of WO0163683

A Polymer Electrolyte Membrane is formed by hot air drying of a membrane formed with an acidic main-polymer having proton conductivity and capability of forming an electrolyte membrane (\$12), and then immersing it into a basic polymer solution to impregnate the membrane with the basic polymer (\$14). The basic polymer is introduced in a large quantity into a site acting as a proton conduction pass of the main-polymer to take charge of the proton conduction. Since in the Polymer Electrolyte Membrane, a base polymer takes charge of proton conduction as compared with the case where proton takes charge of the proton conduction as a hydrate, the base polymer shows favorable proton conductivity even in a low humidity state at an elevated temperature exceeding boiling point of water.



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